

Reducing Cost of Efficient Beef Production (ends 2013)

2013-2017

**Alleviating Rate Limiting Factors that
Compromise Beef Production
Efficiency**

NEXT 5 YEARS

1. Mechanisms by which level of harvested feed affect longevity.
2. Pasture based heifer development systems.
3. Identify factors affecting fertility (bulls and females).
4. Impact of genetic by environmental interactions on production efficiency (poor and favorable environment).

1. Mechanisms by which level of harvested feed affect sustainability

Level of harvested feed input and production

COW

Daughter

Adequate

Control

Restricted

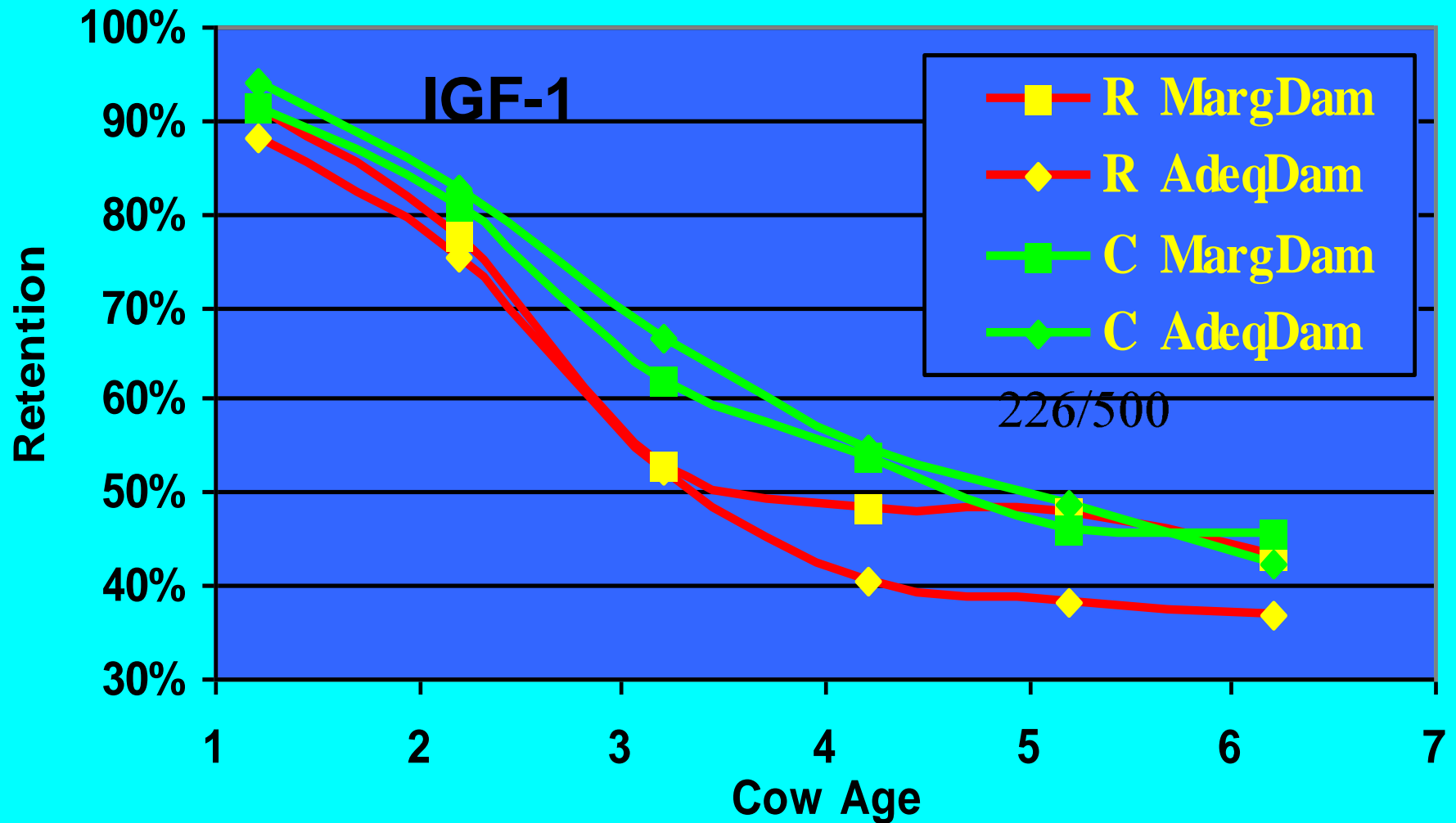
Marginal

Control

Restricted

Uterine Programming ?????

Preliminary results on longevity



NEXT 5 YEARS

2. Pasture based heifer development systems (evaluate strategies to extend forage utilization).

Influences on range

Pasture based heifer development systems

COW

Daughter

Adequate

Drylot

Pasture 1

Pasture 2

Marginal

Drylot

Pasture 1

Pasture 2

↓ dependence on harvested feed/ ↑ Range utilization

NEXT 5 YEARS

1. Mechanisms by which level of harvested feed affect sustainability.
2. Pasture based heifer development systems.
3. Identify factors affecting fertility (bulls and females).

4. Impact of genetic by environmental interactions on production efficiency (poor and favorable environment, range effects).